

... system model for structural dynamic analysis of internal combustion engines

7P Modelistas - Computlers and Structures 2004 - Elsevier

... Also, efforts to **reduce engine vibration** and radiated noise while improving ... facilitated by the use of the finite-element method on high speed computers and the availability of elaborate finite-element preprocessors which can construct complex finite-element mesh models. ...

Cited by 37 - Related articles - 81 Direct - All versions

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[BOOK] Introduction to modeling and control of internal combustion engine...

L. Guzzella CH Onder - 2004 - books.google.com

... 277 B.2.2 Dynamic Behavior 281 B.2.3 Numerical Values of the Model Parameters 283 B ... work required in the gas exchange part of the Otto cycle, reduce mechanical friction ... fuel consumption under the constraint of meeting the given exhaust gas and noise emission regulations. ...

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### CITATION ... highly premixed combustion engine using a 1d Diesel engine model

A Albrecht, J Chauvin, S Polteau, G Corde - Proc. of the IAV Conference "Engine ... 2005

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CITATION: Modeling and controller design of an electromagnetic engine valve

A Stubbs - 2000 - University of Illinois

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## Process fault detection based on modeling and estimation methods—A survey

R. Isermann - Automatica 1984 - Elsevier

... continuous-time models, based on sampled signals, obtained by a process or microcomputer. 4.1. Least-squares parameter estimation. ... To reduce somewhat the influence of the noise interpolation formulas there is another way. ...

Cited by 108 | Received 2015 Apr 5; revised 2015 Apr 5; accepted 2015 Apr 5.

## Models and control methodologies for IC engine idle speed control design

D Hrovat, J Sun - *Control Engineering Practice*, 1997 - Elsevier  
... improved fuel economy, reduced emissions, guaranteed combustion stability, and good noise vibration and ... More sophisticated models, which incorporate the dynamics associated with engine cycle events and ... in the control system designs that are targeted at reducing the idle ...  
Cited by 94 - Related articles - ISI Direct - All 4 versions

pp67 Active control of combustion instabilities in gas turbine engines for low ...  
CA Jacobson, AI Khribnik, A Banaszuk, J Cohen, W ... Proc. AVT Symposium on ... - ria nato int  
... control, and most importantly, to ultimately predict the authority needed to reduce to model  
amplitude ... amplitude of oscillations on 6. The result of applying the outlined procedure to model  
(1) and ... Note that in [12] effect of addition of noise to a combustion model was studied ...  
Cited by 15 - Related articles - View as HTML - All 3 versions

... network modelling of the emissions and performance of a heavy-duty diesel engine ... CM Atkinson, NN Clark, TW Long, ... of the Institution ... 2000 - journals.publishing.com ... The OP net is used to predict opacity. Finally, the TQ net contains the torque sensor. Each VS has three components: a preprocessor for the NN input, an NN model and a post-processor for the NN output. ... The purpose of the filter is to reduce input noise. ... Cited by 20 - Related articles - BI Direct - All 5 versions

Chemical Kinetic Modeling Study of the Effects of Oxygenated Hydrocarbons on ...  
 CK Westbrook, WJ Pitz, HJ Curran - J. Phys. Chem. A, 2006 - pubs.acs.org  
 ester group in their methyl decanoate, consistent with the present kinetic modeling analysis ... and  
 TPGME in a diesel engine and in a constant volume combustion bomb ... both experimental  
 configurations, that TPGME was significantly more effective than DBM in reducing soot levels ...  
 Cited by 25 - Related articles - All 5 versions

Blind source separation of internal combustion engine piston slap from other  
X. Lu, R.W. Randall / Mechanical Systems and Signal Processing, 2005 - Elsevier  
such as piston slap effects, can reduce noise and wear of piston and cylinder, and hence enable  
better design and operation of internal combustion engines. There have been many research  
papers published aiming to study the mechanism [1], [2] and [3] and model [4] and [5] ...  
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